Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-01-08-15 Date: 11-01-2018
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th & 5th cross Manjunatha Nagara in Ward No.14 Bagalagunte.
Agency	:	Technical Manager West KRIDL, Project Implementation Unit, No 280, 59th crosss, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer's Reference	:	BBMP/EE/DD/WO/86/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-2018
Sample ID No	:	2018-01-08-15 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2,3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-01-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Fiuess by Air permeability method (m^2/kg,Min)	298.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 06-02-2018

Lab ID	:	CP-2018-01-08-15
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th & 5th cross Manjunatha Negara in Ward No.14 Bagalagunte.
Agency	:	Technical Manager West KRIDL, Project Implementation Unit, No.280, 59th crosss, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore
Customer's Reference	:	BBMP/EE/DD/WO/86/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-2018
Sample ID No	:	2018-01-08-15 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ; IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	09-01-2018
Environmental Conditions during test	:	Temperature: 26 C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

Note:
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-08-15** **Date: 11-01-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th & 5th cross Manjunatha Nagara in Ward No.14 Bagalagunte.
Agency	:	Technical Manager West KRIDL, Project Implementation Unit, No.280, 59th crosss, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer's Reference	:	BBMP/EE/DD/WO/86/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-01-2018
Sample ID No	:	2018-01-08-15 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-01-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	7289	7543	50.3	49.7	30-70
4	10 mm	3887	11430	76.2	23.8	10-35
5	4.75 mm	3155	14585	97.2	2.8	0-5
6	Pan	415	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-08-15** **Date: 11-01-2018**

Sample ID No : 2018-01-08-15 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.7	
3	Specific Gravity	2.62	-
4	Bulk Density(Loose) (Kg/l)	1.47	-
5	Bulk Density(Compacted) (Kg/l)	1.51	-
6	Water Absorption(%)	0.18	-

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